Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1-3. (Cancelled)

- 4. (Currently Amended) A method for producing a composition comprising S-nitrosohemoglobin, said method comprising adding free NO to a composition comprising oxyhemoglobin <u>under conditions sufficient to maintain the R structure of hemoglobin and wherein the free NO is added in an amount sufficient to produce S-nitrosohemoglobin.</u>
- 5. (Currently Amended) A method for producing a composition comprising intraerythrocytic S-nitrosohemoglobin, said method comprising adding free NO to a composition comprising oxygenated erythrocytes <u>under conditions sufficient to maintain the R structure of hemoglobin and wherein the free NO is added in an amount sufficient to produce S-nitrosohemoglobin.</u>
- 6. (Currently Amended) A method for producing a composition comprising intraerythrocytic NO at greater than about 50nM, said method comprising adding sufficient free NO to a composition comprising oxygenated erythrocytes to yield an intraerythrocytic NO concentration of great than about 50nM.

7-29. (Cancelled)

- 30. (New) The method of claim 4, wherein the conditions sufficient to maintain the R structure of hemoglobin comprise a phosphate concentration that is less than 100 mM.
- 31. (New) The method of claim 30, wherein the phosphate concentration is about 10 mM.
- 32. (New) The method of claim 4, wherein the amount of free NO is about 100 nM to about 1 mM and the ratio of free NO to heme is about 1:4000 to about 1:100.

- 33. (New) The method of claim 5, wherein the conditions sufficient to maintain the R structure of hemoglobin comprise a phosphate concentration that is less than 100 mM.
- 34. (New) The method of claim 33, wherein the phosphate concentration is about 10 mM.
- 35. (New) The method of claim 5, wherein the amount of free NO is about 100 nM to about 1 mM and the ratio of free NO to heme is about 1:4000 to about 1:100.